

solar edge		SolarEdge										
		P370	P401	P404	P405	P485	P500	P505	P605	P650	P701	P730
Nominal P _{DC} in [Wp]		370	400	405	405	485	500	505	605	650	700	730
Min V _{mpp} (for MPPT) [V]		8	8	12.5	12.5	12.5	8	12.5	12.5	12.5	12.5	12.5
Max V _{OC} (lowest T) [V]		60	60	80	125	125	80	83	65	96	96	125
Max I _{SC} [A]		11	11.75	11	11	11	10.1	14	14	11	11.75	11
X-TILE	Min # X-Tile Black/Terracotta	2	2	2	2	2	2	2	2	2	2	2
	Max # X-Tile Black	6	6	6	6	7	8	8	7	10	10	11
	Undersizing at max # ^[1]	105%	98%	96%	96%	94%	104%	103%	75%	100%	93%	98%
	Max # X-Tile Terracotta	6	6	8	8	10	8	8	7	10	10	13
	Undersizing at max # ^[1]	81%	75%	99%	99%	103%	80%	79%	58%	77%	71%	89%
X-ROOF	Min # X-Roof Black/Terracotta	1	1	2	2	2	1	2	2	2	2	2
	Max # X-Roof Black	4	5	5	5	6	6	6	5	8	8	10
	Undersizing at max # ^[1]	86%	100%	99%	99%	99%	96%	95%	66%	98%	91%	110%
	Max # X-Roof Terracotta	5	5	6	6	7	6	7	5	8	8	10
	Undersizing at max # ^[1]	88%	81%	96%	96%	94%	78%	90%	54%	80%	74%	89%

^[1] Undersizing based on nominal P_{DC} in. SolarEdge recommends not exceeding undersizing the power optimizer more than 105%

<https://www.solaredge.com/sites/default/files/se-power-optimizer-datasheet-nld.pdf>

ENPHASE		Enphase micro inverters		
		IQ 7	IQ 7+	IQ 7A
Max DC in [V]		48	60	58
min MPPT [V]		16	16	16
max MPPT [V]		37	45	58
Max Isc [A]		15	15	15
Max continuous AC out [VA]		240	290	349
X-TILE	Min # X-Tile Black/Terracotta	3	3	3
	Max # X-Tile Black	5	6	6
	Undersizing at max # ^[2]	135%	134%	112%
	Max # X-Tile Terracotta	5	6	6
	Undersizing at max # ^[2]	104%	103%	86%
X-ROOF	Min # X-Roof Black/Terracotta	2	2	2
	Max # X-Roof Black	4	5	5
	Undersizing at max # ^[2]	133%	138%	115%
	Max # X-Roof Terracotta	4	5	5
	Undersizing at max # ^[2]	108%	112%	93%

https://enphase.com/sites/default/files/downloads/support/IQ7A-DS-EN-INTL-24-08-20_NL.pdf

<https://enphase.com/sites/default/files/downloads/support/IQ7-IQ7plus-DS-NL-NL.pdf>

^[2] Enphase and APsystems do not enforce DC/AC ratio. 125% undersizing is used as max desired value.

APsystems ALTERNERGY POWER		AP Systems micro inverters		
		YC600-EU	YC1000	QS1
Max DC in [V]		60	60	60
min MPPT [V]		22	22	22
max MPPT [V]		48	48	48
Max Isc [A]		12	14.8	15
Max continuous AC out [VA]		600	1130	1200
# inputs		2	4	4
X-TILE	Min # X-Tile Black/Terracotta per input	4	4	4
	Max # X-Tile Black per input	6	6	6
	Undersizing at max # ^[2]	130%	138%	130%
	Max # X-Tile Terracotta per input	6	6	6
	Undersizing at max # ^[2]	100%	106%	100%
X-ROOF	Min # X-Roof Black/Terracotta per input	4	4	4
	Max # X-Roof Black per input	5	5	5
	Undersizing at max # ^[2]	133%	142%	133%
	Max # X-Roof Terracotta per input	5	5	5
	Undersizing at max # ^[2]	108%	115%	108%

https://emea.apsystems.com/wp-content/uploads/2020/09/APsystems_YC600_Datasheet_NL.pdf

https://emea.apsystems.com/wp-content/uploads/2019/05/APsystems_datasheet_YC1000_2019_NI

https://emea.apsystems.com/wp-content/uploads/2020/09/APsystems_QS1_Datasheet-2020_NL.pdf